

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Please cancel claim 24 without prejudice.

Please add new claim 28.

Please amend claims 1-4, 14, 15 and 25-27 as indicated below (material to be inserted is in underline, material to be deleted is in ~~strikeout~~):

Listing of Claims:

1. (Currently Amended) An image projection system configured to enhance quality of an image on a screen, the system comprising:

an illumination source configured to produce light and direct light along an optical path to produce sequential image frames; and

a time-varying focus device disposed in the optical path and configured to periodically alter focal length of sequential image frames ~~focus of incident light~~ to enhance quality of the image on the screen.

2. (Currently Amended) The image projection system of claim 1, wherein the time-varying focus device is configured to periodically diverge light of sequential image frames ~~exiting the time-varying focus device~~.

3. (Currently Amended) The image projection system of claim 1, wherein the time-varying focus device is configured to periodically converge light of sequential image frames ~~exiting the time-varying focus device~~.

4. (Currently Amended) The image projection system of claim 1, wherein the time-varying focus device is configured to iteratively ~~sequentially~~ diverge light

~~exiting the time-varying focus device~~ and then converge light of sequential image frames exiting the time-varying focus device.

5. (Original) The image projection system of claim 1, wherein the time-varying focus device includes a reflective lens.

6. (Original) The image projection system of claim 1, wherein the time-varying focus device is a variable-curvature mirror.

7. (Original) The image projection system of claim 6, wherein the variable-curvature mirror employs a piezo element to alter curvature of the mirror.

8. (Original) The image projection system of claim 6, wherein the variable curvature mirror is a bimorph mirror.

9. (Original) The image projection system of claim 6, wherein the variable-curvature mirror is configured to alternate between a generally planar state and a generally curved state.

10. (Original) The image projection system of claim 1, wherein the time-varying focus device includes a refractive lens.

11. (Previously Presented) The image projection system of claim 1, wherein the time-varying focus device is a focus wheel having regions of differing focus characteristic.

12. (Original) The image projection system of claim 11, wherein the focus wheel includes at least one curved lens region.

13. (Original) The image projection system of claim 1, wherein the time-varying focus device includes at least two focus wheels with a first focus wheel configured to cause the incident light beam to horizontally diverge and a second focus wheel configured to cause the incident light beam to vertically diverge.

14. (Currently Amended) The image projection system of claim 1, wherein the time-varying focus device is configured to selectively periodically alter focal length of sequential image frames ~~incident light~~ to change intensity of the image on the screen.

15. (Currently Amended) A display system configured to enhance the quality of an image on a screen, the system comprising:

an illumination source configured to direct light along an optical path;

a spatial light modulator adapted to modulate the light into a plurality of discrete light beams, each light beam configured to project a light spot on the screen of a first size; and

a variable focus device disposed in the optical path and configured to periodically vary size of light spots on the screen between the first size in a first image frame and a second size in a second image frame such that a corresponding image portion on the screen rapidly and repeatedly alternates in sequential image frames between a focused state and a defocused state to enhance the appearance of the image.

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Original) The display system of claim 15, wherein the variable focus device is a deformable mirror array.

20. (Original) The display system of claim 19, wherein the spatial light modulator includes the variable focus device.

21. (Cancelled)

22. (Original) The display system of claim 19, wherein the deformable mirror array is an array of bimorph mirrors.

23. (Original) The display system of claim 13, wherein the variable focus device is a focus wheel having regions of differing optical characteristics, the focus wheel being rotated to sequentially place such regions of differing optical characteristics into the optical path.

24. (Cancelled)

25. (Currently Amended) A method for enhancing the quality of an image on a screen, the method comprising:

providing an illumination source configured to generate a light beam;

directing the light beam from the illumination source along an optical path to produce image frames on a screen, wherein each image frame has a focal length;
and

periodically altering the focal lengths of the image frames to produce repeatedly interleaved focused and defocused image frames on the screen The method of claim 24, wherein periodically altering the focal lengths includes altering the focal length of sequential image frames.

26. (Currently Amended) A method for enhancing the quality of an image on a screen, the method comprising:

providing an illumination source configured to generate a light beam;

directing the light beam from the illumination source along an optical path to produce image frames on a screen, wherein each image frame has a focal length;
and

periodically altering the focal lengths of the image frames to produce repeatedly interleaved focused and defocused image frames on the screen The ~~method of claim 24~~, wherein periodically altering the focal lengths includes rapidly and repeatedly focusing and defocusing sequential image frames.

27. (Currently Amended) A display device configured to display an image on a screen, the system comprising:

illumination means for producing a light beam;

light modulating means for directing the light beam onto a screen to form an image; and

variable focus means for varying size of the light beam such that the image on the screen repeatedly alternates between a focused and an unfocused state in sequential image frames.

28. (New) A method for enhancing the quality of an image on a screen, the method comprising:

providing an illumination source configured to generate a light beam;

directing the light beam from the illumination source along an optical path to produce images on a screen, wherein each image has a focal length; and

rapidly and repeatedly altering the focal lengths of the images to produce interleaved sequentially focused and defocused images on the screen.